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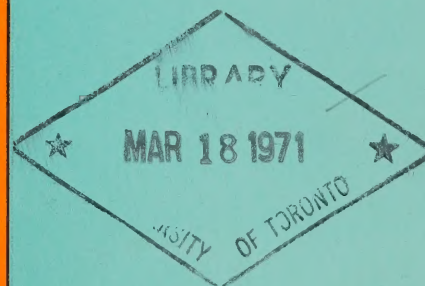
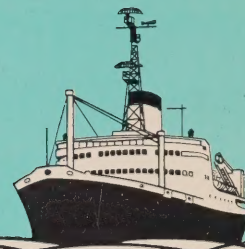
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CANADIAN 'HIGH SEAS'

TELEPHONE SERVICE



MINISTRY OF TRANSPORT

CANADA

*Telecommunications and
electronics branch*

PREPARED BY
TELECOMMUNICATIONS AND ELECTRONICS BRANCH
OTTAWA, CANADA
MAY, 1970 *

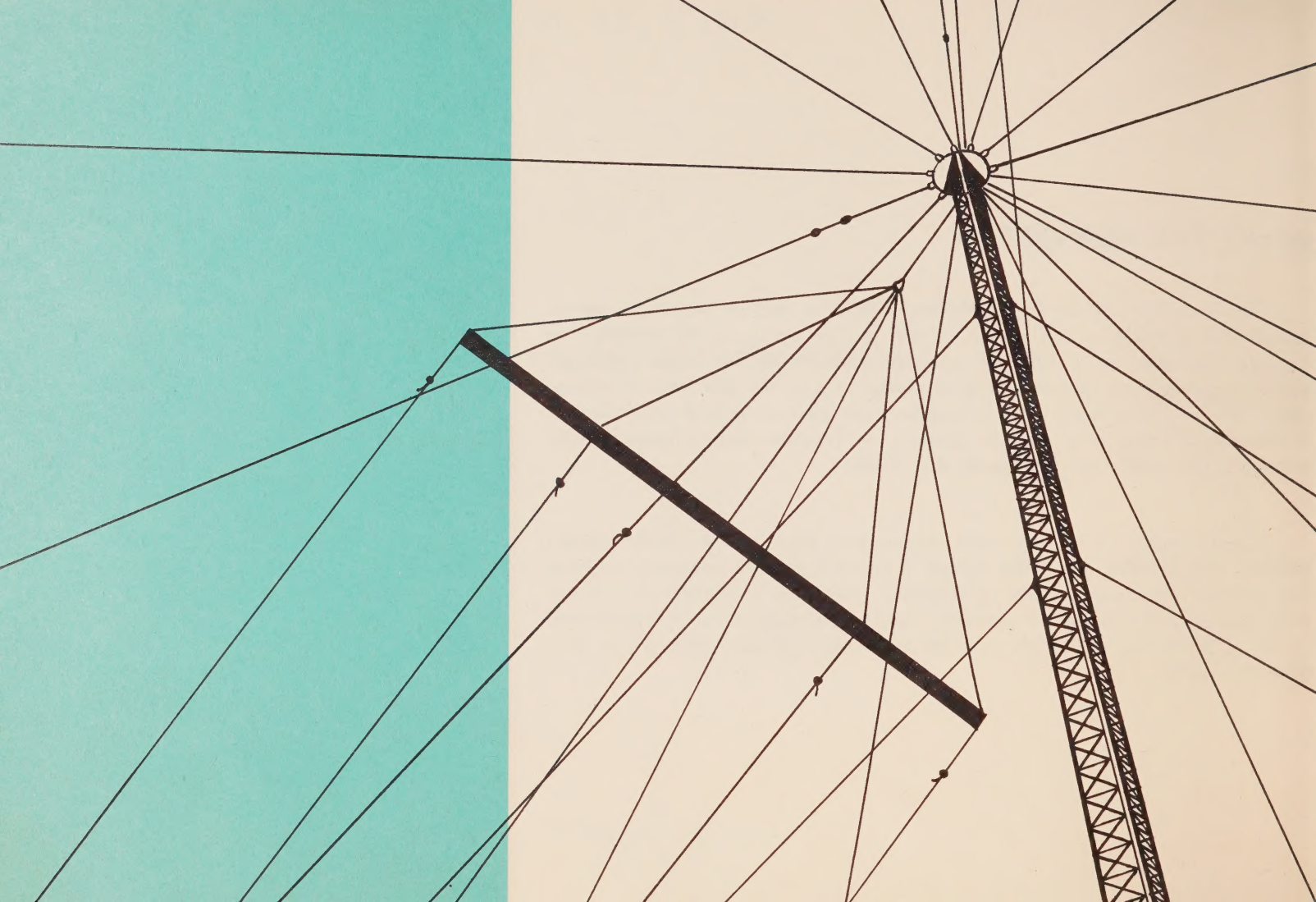
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WHAT THE SERVICE IS

The Canadian "High Seas" Marine Telephone Service enables a person aboard ship to speak to any person ashore, or vice versa, as in ordinary long distance telephone calls. Although intended primarily for the larger passenger and ocean going ships operating at great distances from the mainland, increasing use of the service is being made by smaller craft sailing the high seas. Service is available 24 hours daily through Ministry of Transport Marine Radio Stations at Halifax, N.S. (VCS) and Vancouver, B.C. (VAI).

Careful selection of the radio frequencies used in the "HIGH SEAS" MARINE TELEPHONE SERVICE makes it possible to take advantage of daily and seasonal variations in radio propagation conditions to achieve communications over great distances. For example, the daytime range of the 4 MHz channel is 100 to 300 miles, while this same frequency at night may have two or three times this range.



FREQUENCIES AND MODES OF OPERATION

The "High Seas" service is provided on paired frequency assignments using single sideband emissions (H and A modes) as listed on page 3. Upper sideband emissions are employed.



MARINE RADIO STATION LOCATION	MARINE RADIO STATION TRANSMITTING FREQUENCY kHz	CHANNEL DESIGNATORS	SHIP STATION TRANSMITTING FREQUENCY kHz	TRAFFIC LISTS BROADCAST
Halifax, N.S. (VCS)	4431.8A3H/A 8770.4A3H/A 13154.5A3H/A 17300.5A3H/A 22706.0A3H/A	81 95 92 97 98	4133.2 8236.4 12375.5 16505.5 22080.5	Every odd hour at H + 00
Vancouver, B.C. (VAI)	4431.8A3H/A 8812.0A3H/A 13193.0A3H/A 17339.0A3H/A 22716.5A3H/A	84 95 91 94 99	4133.2 8278.0 12414.0 16544.0 22091.0	Every even hour at H + 10

Note: The frequencies listed are the carrier frequencies. The assigned frequencies are 1.4 kHz higher than the carrier frequencies.

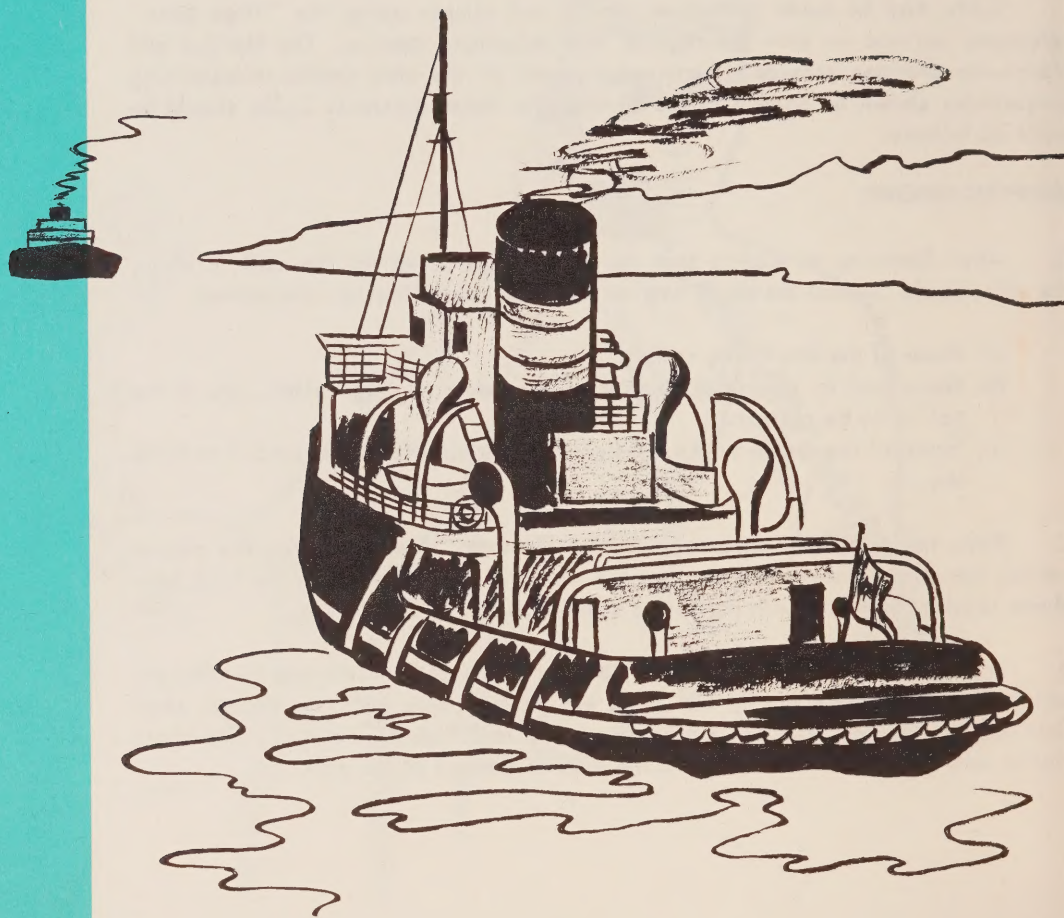


HOW TO PLACE A CALL

Calls may be made almost as easily and simply using the "High Seas" telephone service as with the regular land telephone service. The Halifax and Vancouver stations provide a continuous guard on the ship station transmitting frequencies shown on page 3 in the listings for these stations. Calls should be made as follows:

SHIP-TO-SHORE

1. After listening to ensure that the channel selected for the call is clear, the ship should contact the shore station and give the following information:
 - (a) Name of the city being called.
 - (b) Name and/or telephone number of the person being called, and if the call is to be collect.
 - (c) Name of the caller or the number of his telephone credit card if he holds one.
2. When the telephone company "Marine Operator" has contacted the person called, the shore station will then switch the call from the ship to the land telephone system to enable both parties to speak directly to each other.
3. In the event that the ship radio operator is unable to compute the charges which should be collected by him for a marine telephone call, he should, when first placing the call, request the shore station to "Report Charges". The shore station will relay this information to the ship at the end of the call.



SHORE-TO-SHIP

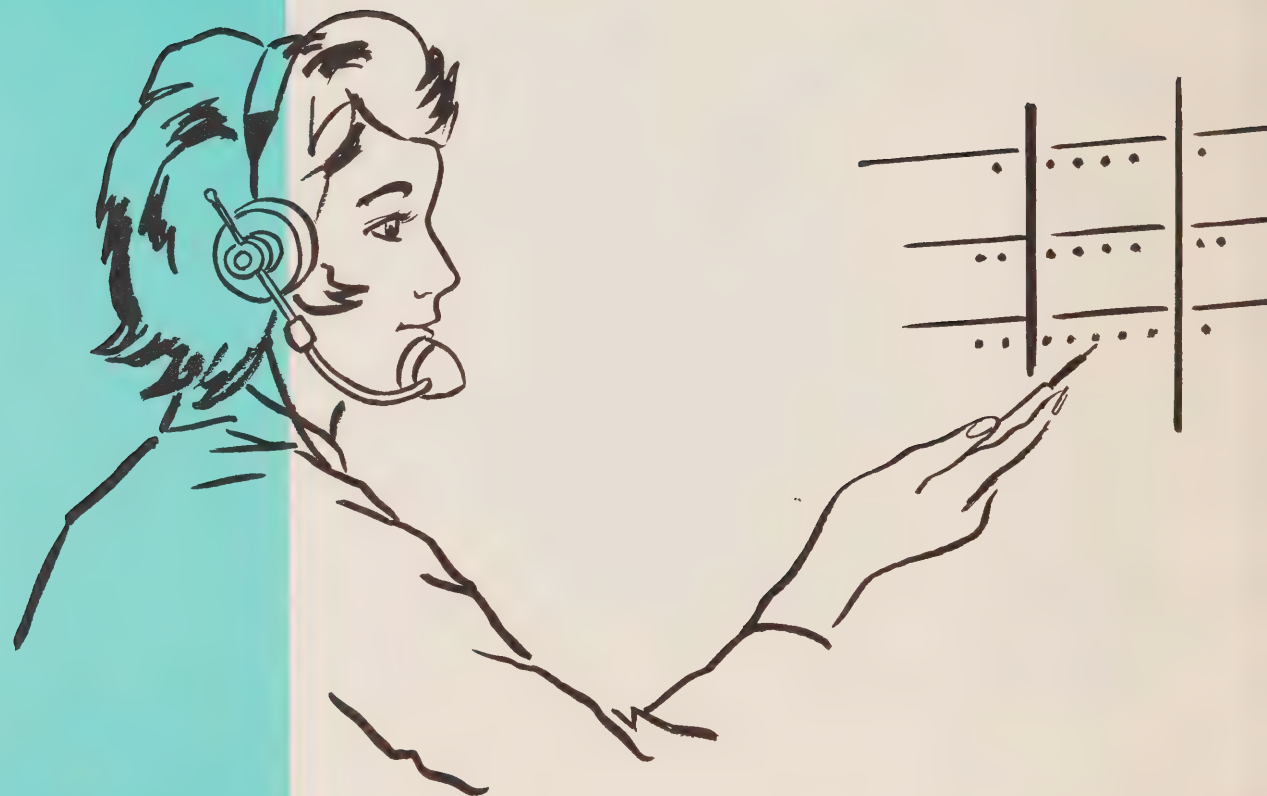
1. Dial "OPERATOR". When the Operator answers ask her to connect you with the "Marine Operator".

2. When the "Marine Operator" answers ask for "High Seas" service and give her the following information:

- (a) Name of the person and ship being called and whether or not the call is to be collect.
- (b) Name of the city and telephone number from which the call is being made and number of the caller's telephone credit card if the caller holds one.

Although every effort will be made to complete calls as soon as they are placed, unavoidable delays may sometimes occur. Delays will seldom occur on ship-to-shore calls because the ship may contact the shore station at any time. On shore-to-ship calls, immediate contact with the ship may not be possible when calls are placed at times when the ship is not keeping a radio watch.

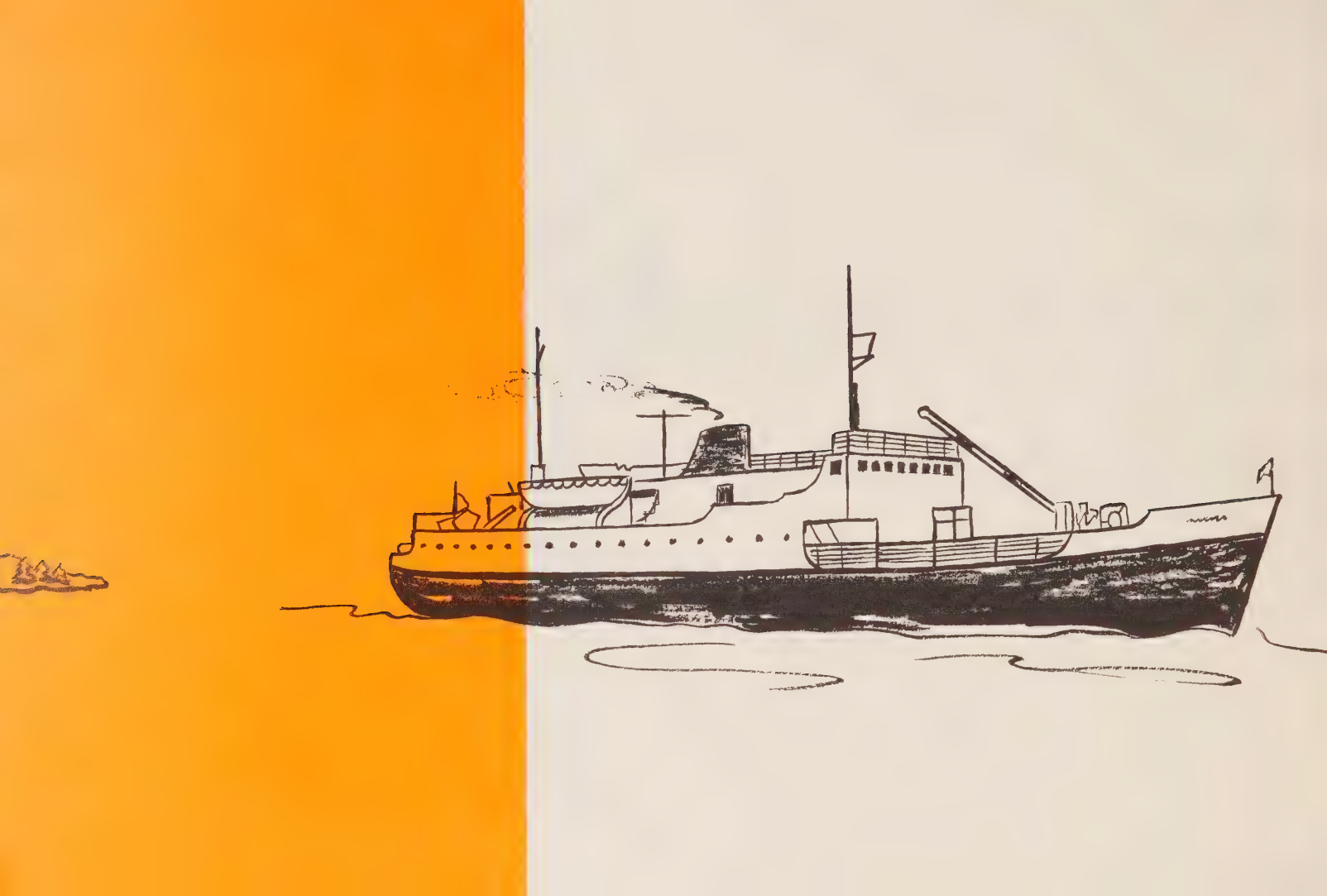
The Halifax and Vancouver stations are equipped to provide privacy of communications on request.



CHARGES

For charging purposes, Canada is divided into four rate zones, as indicated on the map (Page 8). The following table shows the total cost of "High Seas" calls to and from these zones, including coast, ship and telephone company charges.

No distinction is made in regard to day, night or Sunday calls. Collect calls are admissible in either direction, ship-to-shore or shore-to-ship.



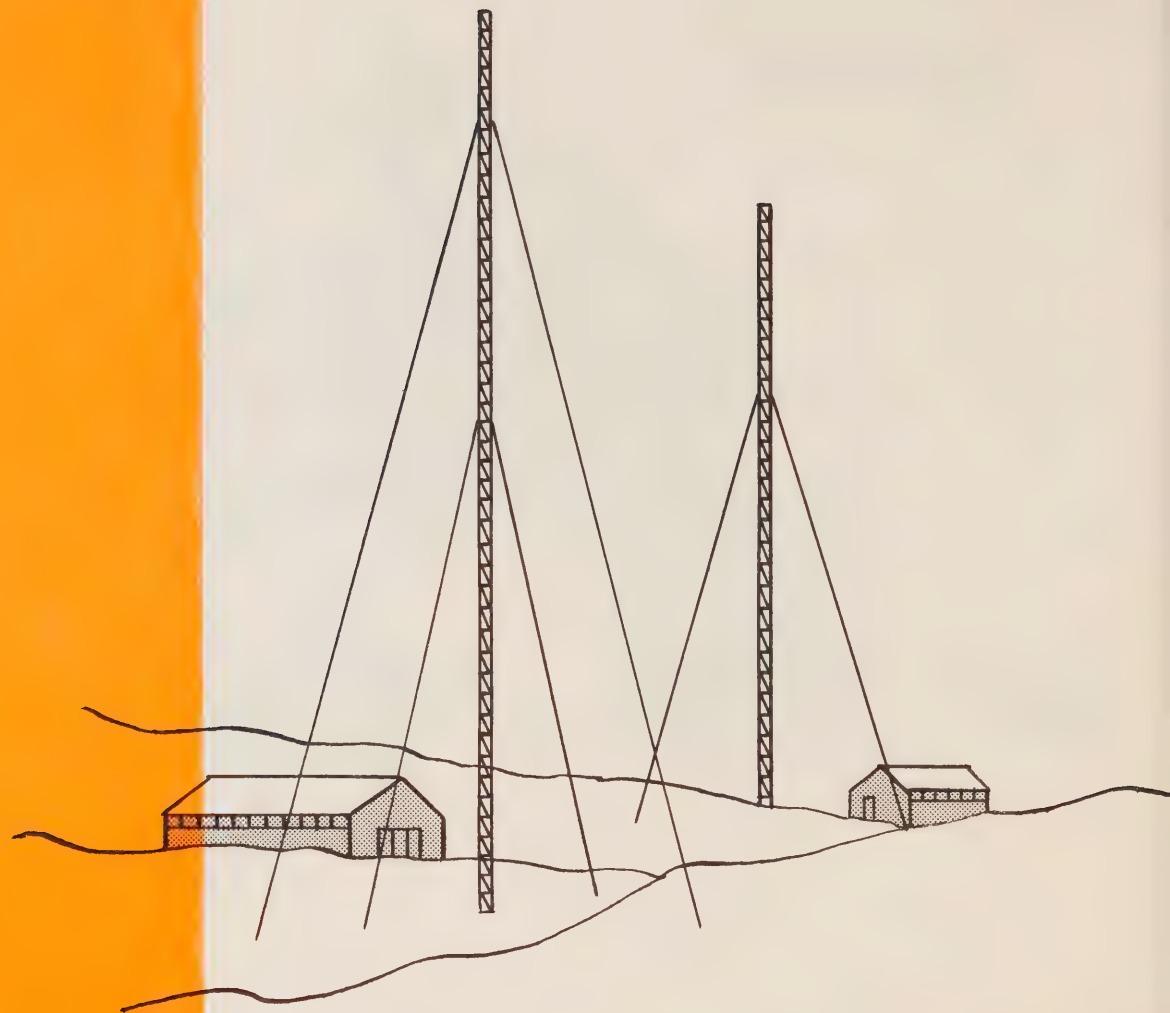
**"HIGH SEAS"
TELEPHONE RATES**

	Via Halifax		Via Vancouver	
	3 Mins.	Each add. Minute	3 Mins.	Each add. Minute
Zone 1 New Brunswick, Newfoundland, Nova Scotia, Prince Edward Island	\$2.85	\$0.90	\$5.10	\$1.65
Zone 2 Ontario, Quebec, Labrador, Northwest Territories	\$3.60	\$1.15	\$4.35	\$1.40
Zone 3 Manitoba, Saskatchewan, Yukon	\$4.35	\$1.40	\$3.60	\$1.15
Zone 4 Alberta, British Columbia	\$5.10	\$1.65	\$2.85	\$0.90



RATE ZONES





LICENSING REQUIREMENTS

Before radiotelephone communications equipment can be operated on board a ship, the owner must obtain a ship radio station license and an operator's license. Application for these documents should be made to the telecommunications administration of the country to which the station is subject.

BILLING OF CHARGES

Calls chargeable to ships are billed by the Ministry of Transport in Ottawa and those chargeable to telephone subscribers are billed by the local telephone company.

GENERAL FREQUENCY REQUIREMENTS FOR SHIPS

To ensure satisfactory service, several operating frequencies are needed due to the varying distances between ship and shore stations and the daily, seasonal and longer period variations in radio propagation which occur. For the most reliable service, frequencies in the 4, 8, 13, 17 and 22 megahertz bands are desirable for most ships. However, for ships that remain within a thousand miles of the mainland, frequencies in the 17 and 22 megahertz bands will probably not be required.



PHONETIC ALPHABET FOR "HIGH SEAS" SERVICE

When calls contain unusual or unfamiliar proper names and whenever precise spelling is important, an analogy is used for each letter, as follows:

A	ALFA	J	JULIETT	S	SIERRA
B	BRAVO	K	KILO	T	TANGO
C	CHARLIE	L	LIMA	U	UNIFORM
D	DELTA	M	MIKE	V	VICTOR
E	ECHO	N	NOVEMBER	W	WHISKEY
F	FOXTROT	O	OSCAR	X	XRAY
G	GOLF	P	PAPA	Y	YANKEE
H	HOTEL	Q	QUEBEC	Z	ZULU
I	INDIA	R	ROMEO		

